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## **CLAIMS**

We claim:

- 1. A composition, comprising a peptide having an amino acid sequence substantially as set forth in SEQ ID NO: 2 and a derivative, fragment, motif, analog or peptidomimetic thereof (MTLP).
- 2. A composition, comprising a MTLP selected from the group consisting of an amino acid sequence substantially as set forth in SEQ ID NOS: 3-24 and a fragment, motif, derivative, analog or peptidomimetic thereof.
- 3. The composition of claim 1, further comprising an active agent, wherein the MTLP is complexed to the active agent.
- 4. The composition of claim 2, further comprising an active agent, wherein the MTLP is complexed to the active agent.
- 5. The composition of claim 1, further comprising an active particle, wherein the MTLP is complexed to the active particle.
- 6. The composition of claim 2, further comprising an active particle, wherein the MTLP is complexed to the active particle.
- 7. A method for enhancing movement of an active agent across a lipid membrane, comprising a complex selected from the group consisting of a MTLP-active agent complex and a MTLP-active particle complex, wherein the MTLP enhances movement of the active agent across the lipid membrane.

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- 8. A method for enhancing movement of an active particle across a lipid membrane, comprising a MTLP-active particle complex, wherein the MTLP enhances movement of the active particle across the lipid membrane.
- 9. A method for identifying a derivative of a MTLP having enhanced ability to transport an active agent across a lipid membrane, wherein the derivative of the MTLP competes for transport of fMLP across a membrane selected from the group consisting of a cell membrane, an intracellular membrane, the apical and basal membranes of an epithelial cell layer.
- 10. The membrane of claim 9, wherein the epithelial cell layer is a polarized epithelial cell layer.
- 11. A method for treating a pathological disorder in an animal, comprising orally administering to the animal in need of such treatment a complex selected from the group consisting of a MTLP-active agent complex and a MTLP-active particle complex, wherein an amount of the active agent effective to treat the pathological disorder is moved across the gastrointestinal epithelium of the animal into the circulation.